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FEBRUARY 1962

D E P A R T M E N T O F E N G I N E E R I N G

a bibliography on aerosonics

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February 1962

A BIBLIOGRAPHY ON AEROSONICS

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FOREWORD

The research described in this report, *A Bibliography on Aerosonics*, by Alan Powell and T. J. B. Smith, was carried out under the technical direction of Alan Powell and is part of the continuing program in Fluid Motion and Sound.

This project is conducted under the sponsorship of the Fluid Dynamics Branch, Mathematical Sciences Division, Office of Naval Research. Submitted in partial fulfillment of Contract Number Nonr-233(62), Authority Number NR 062-299-1-28-60.

A handwritten signature in black ink, appearing to read "J. M. English". The signature is fluid and cursive, with a large loop at the end.

J. M. English
Director - Research

University of California
Department of Engineering
Los Angeles, California

INTRODUCTION

This bibliography, which has been compiled primarily to meet the requirements of research being undertaken at the Aeronautics Laboratory of the University of California at Los Angeles, consists mainly of references to open literature relating to those sections of acoustics which are particularly associated with fluid motion and thermal action. Any bibliography such as this can only approach completeness in a narrow sense, since its scope must be limited in some way. The criterion of selection used here has primarily been one of relevance to the central subject area; consequently a few items are included which are extremely relevant but display no direct acoustical connotations, and on the other hand many aspects of acoustics which are not closely related to the areas of specialization have been omitted. The references are followed by a simple indexing system in order to provide rapid location of information relating to any of eighteen subdivisions of the main subject and it is hoped that this will greatly add to the convenience of the bibliography, which contains about two thousand entries.

It is inevitable that there will be oversights and omissions of some references. The help of users (and of authors) will be welcomed in repairing defects, since it is intended to produce supplementary issues to this volume, in order to keep its content up-to-date and to correct any errata and omissions. The compilers will be very grateful for any comments which may lead to an improvement in format or ease of use in any later editions.

ABBREVIATIONS OF TITLES OF JOURNALS AND ORIGINS OF REFERENCES CONTAINED IN THE BIBLIOGRAPHY

A.A.U.S. <i>Department of Aeronautics and Astronautics, University of Southampton, U.K.</i>	BRL <i>Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland</i>
AD <i>Armed Services Technical Information Agency, Document Number</i>	C. I. T. <i>California Institute of Technology, Pasadena, Calif.</i>
Aero. Engr. Rev. <i>Aeronautical Engineering Review</i>	Comm. Pure App. Math. <i>Communications in Pure & Applied Mathematics</i>
Aero. Quart. <i>Aeronautical Quarterly</i>	Compt. Rend. <i>Comptes Rendus hebdomadaires des seances de l'Academie des Sciences, Paris</i>
Af. Ned. Akad. Wet <i>Afdeling natuurkunde Nederlandsche akademie van wetenschappen, Amsterdam</i>	Dok. Akad. Nauk., SSSR <i>Doklady Akademii Nauk S.S.S.R.</i>
AFOSR <i>Air Force Office of Scientific Research</i>	DTMB <i>David Taylor Model Basin, Washington D.C.</i>
A.G.A. <i>American Gas Association</i>	Dan. Mat. Fys. Medd. <i>Der Kongelige Danske Videnskabeones Selskab Matematisk – fysiske Meddelelser, Kobenhavn</i>
AGARD <i>Advisory Group for Aeronautical Research and Development, North Atlantic Treaty Organization</i>	G. I. T. <i>Georgia Institute of Technology, Atlanta, Ga.</i>
A. J. Phys. <i>American Journal of Physics</i>	Helv. Phys. Acta <i>Helvetica Physica Acta</i>
A. J. Sci. <i>American Journal of Science</i>	Ind. Engr. Chem. <i>Industrial and Engineering Chemistry</i>
Akust. Z. <i>Akustische Zeitschrift</i>	Inzh. Fiz. Zh. <i>Inzhenero, Fizicheskii Zhurnal, Minsk</i>
Ann. Physik. <i>Annalen der Physik.</i>	J. Aero/Space Sci. <i>Journal of the Aerospace Sciences</i>
Ann. physique <i>Annales de physique</i>	J. Aero. Sci. <i>Journal of Aeronautical Sciences</i>
ARC <i>Aeronautical Research Council, Air Ministry, U.K.</i>	J. App. Mech. <i>Journal of Applied Mechanics</i>
A.R.L. <i>Aeronautical Research Laboratories (Australia)</i>	J. App. Phys. <i>Journal of Applied Physics</i>
A. R. S. J. <i>American Rocket Society Journal</i>	J.A.S.A. <i>Journal of the Acoustical Society of America</i>
ASHAE Trans. <i>American Society of Heating & Air-Conditioning Engineers, Transactions</i>	J. Chem. Phys. <i>Journal of Chemical Physics</i>

J. Chem. Soc.
Journal of the Chemical Society, London

Jet Prop.
Jet Propulsion

J.E.T.P., USSR
Journal of Experimental & Theoretical Physics
Translation of:
Zhurnal eksperimental'noi i teoreticheskoi fiziki

J. Fluid Mech.
Journal of Fluid Mechanics

J.I.E.E.
Journal of the Institution of Electrical Engineers, London

J. Inst. Pet. Tech.
Journal of the Institute of Petroleum Technology, London

J. Math. Phys.
Journal of Mathematical Physics

J. Mech. App. Math.
Journal of Mechanics & Applied Mathematics

J. Opt. S. A.
Journal of the Optical Society of America

J. Phys. Chem.
Journal of Physical Chemistry

J. phys. et radium
Journal de physique et le radium

J. P. L.
Jet Propulsion Laboratory, Calif.
Institute of Technology, Pasadena, Calif.

J. R. Ae. S.
Journal of the Royal Aeronautical Society, London

J. Sci. Arts
Journal of Science and the Arts; ed. at The Royal Institution, London

M.I.T.
Massachusetts Institute of Technology, Cambridge, Mass.

NACA
National Advisory Committee for Aeronautics

NASA
National Aeronautics & Space Administration

NGTE
National Gas Turbine Establishment, U.K.

ONERA
L'office National d'études et de Recherches Aéronautiques, Paris

Phil. Mag
Philosophical Magazine

Phil. Trans. Roy. Soc.
Philosophical Transactions of the Royal Society, London

Phys. Z.
Physikalische Zeitschrift

Proc. I. Mech. E.
Proceedings of the Institute of Mechanical Engineers, London

Proc. I. R. E.
Proceedings of the Institute of Radio Engineers

Proc. Phys. Soc.
Proceedings of the Physical Society, London

Proc. Roy. Soc.
Proceedings of the Royal Society, London

Quart. App. Math.
Quarterly Journal of Applied Mathematics

Quart. J. Mech. App. Math
Quarterly Journal of Mechanics & Applied Mathematics

RAE
Royal Aircraft Establishment, Farnborough, Ministry of Aviation, London

Rep. Prog. Phys.
Reports on Progress in Physics, Physical Society of London

Rev. Acoust.
Revue d'acoustique

Rev. Mod. Phys.
Reviews of Modern Physics

S. A. E. Quart. Trans
Society of Automotive Engineers Quarterly Transactions

Trans. ASME

*Transactions of the American Society of
Mechanical Engineers*

Trans. Faraday Soc.

Transactions of the Faraday Society

Trans. I. Chem. E.

Transactions of the Institute of Chemical Engineers

Trans Roy. Soc.

*Philosophical Transactions of the Royal Society,
London*

USAA

*Univ. of Southampton, Department of Aeronautics
and Astronautics, U.K.*

UTIA

*University of Toronto Institute of Aerophysics,
Canada*

WADC

Wright Air Development Center

WADD

Wright Air Development Division

Z. angew. Math. Mech.

*Zeitschrift für angewandte Mathematik und
Mechanik, Berlin*

Z. angew. Math. Physik.

*Zeitschrift für angewandte Mathematik und
Physik, Basel*

Zh. Fiz. Khimii

Zhurnal Fizicheskoi Khimii

Zh. Tekh. Fiz.

Zhurnal Tekhnicheskoi Fiziki

Z. Physik.

Zeitschrift für angewandte Physik, Berlin

Z. physik Chem.

Zeitschrift für physikalische Chemie

Z.V.D.I.

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J.A.S.A., 33, 1200-1205, 1961
- 61126/Ws - J. E. Ff. Williams
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- 61127/Wh - William W. Willmarth
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- 61128/Wi - H. U. Wisniowski
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- 61129/ZR - Joseph Zemanek, Jr. & Isadore Rudnick
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J.A.S.A., 33, 1283-1287, 1961

INDEX

The following index chart is intended as a guide to the major sub-divisions into which the references contained in this bibliography fall. Each numbered vertical column corresponds to a particular subject listed below, and the presence of a cypher in any of these columns indicates that the reference, whose number is given in the first column, is mainly of a theoretical (T) or experimental (E) nature, or a review (R). Any reference covering more than one aspect of the subject is indicated by the appropriate combination of these three letters, or is included under several sub-headings, or both.

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|---|--|
| 1. Aerodynamic sound (General). | 10. Propellers and rotors. |
| 2. Analogies. | 11. Rocket noise. |
| 3. Experimental techniques and methods. | 12. Resonance and oscillation. |
| 4. Structural excitation by flows and sound; fatigue. | 13. Sonic boom and shock waves. |
| 5. Flow past bodies. | 14. Sound propagation, scattering, transmission, attenuation and reflection. |
| 6. Fluid instability, acoustic streaming. | 15. Structural dynamics. |
| 7. Jet flows and wakes; turbulence. | 16. Thermoacoustics. |
| 8. Jet noise suppression devices. | 17. Wave dynamics. |
| 9. Noise (General). | 18. Hydrodynamics |

T – theoretical

E – experimental

R – review

INDEX

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
46001/Bv														T					48012/Ky							E											
46002/Bs													E	E					48013/Ms												R						
46003/Cv														T					48014/My												T						
46004/Cr	R	R																	48015/Me	T						T											
46005/Fg	R	R																	48016/OT							E					E						
46006/GI																E			48017/Pk							T					T						
46007/HC														T					48018/Pk															E			
46008/HE												TE					TE	TE	48019/RL							TE											
46009/Jm	R																		48020/TO							E					E						
46010/Jm	R																		48021/VI													E					
46011/Jm	R																		49001/AW													E					
46012/Jm	R																		49002/BL										T					T			
46013/SK		E		E															49003/CS															E			
46014/Sn					TE												TE		49004/Cn							E											
46015/TR	E																		49005/Cn		E																
47001/Co				E								E				E			49006/Dn												E						
47002/CM																E			49007/Gd									T	T					T			
47003/En												R				R			49008/Hd		E		E												E		
47004/HZ		E																	49009/IN															E			
47005/Kv														T					49010/KI													E					
47006/MC		E				E													49011/LI											T							
47007/Rr	E																		49012/LF															E			
47008/RH										E									49013/Mn															E			
47009/RL												TE							49014/MB									ER									
47010/Sr							E												49015/OS							T					T						
47011/Yn	TE			TE															49016/PI							E											
48001/Ai														T					49017/Sk															TE			
48002/Bo	E			E															49018/St											T				T			
48003/BM																E			49019/Td		E					E											
48004/BH		E									E					E			49020/To												E			E			
48005/CF													R						49021/Vy	E	E																
48006/Dy																E			49022/YW										T	T					T		
48007/Ds							E									E			50001/Br							T											
48008/Et					T														50002/BE	E	E																
48009/GM																E			50003/Bs							E	E										
48010/Hd										E									50004/Co							E									E		
48011/HF														E					50005/Cv												T						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
50006/Cr														T					51007/BL												E			E			
50007/Cr														T					51008/Bh													T					
50008/Cs												E				E			51009/Bs												T						
50009/Cn							T												51010/BS							T					T						
50010/CU							E												51011/CG													R					
50011/Dp												E				E			51012/Cn							T											
50012/Dp												E				E			51013/Cn							T											
50013/EK	ER																		51014/CK							T											
50014/FH							T												51015/CU							E											
50015/FI								T						T					51016/Co										T						T		
50016/Gs							T												51017/Dn							R											
50017/GM																E			51018/EC		E					E					E						
50018/GF										TE						TE			51019/FF																E		
50019/HE																E			51020/Fx												E			E			
50020/HR									T										51021/HL		E										E						
50021/KI								E											51022/HS												E			E			
50022/LI							T					T							51023/Hn															TE			
50023/Ln							T	T											51024/Id													T					
50024/LK	R																		51025/Kr		T																
50025/LI	T							T											51026/LE																T		
50026/Mn												E				E			51027/LL								T										
50027/Ms								TE											51028/LM	R																	
50028/PC												E				E			51029/Mn																TE		
50029/Rs																TE			51030/Mn												E			E			
50030/Rn								T							T				51031/Mr							R					R						
50031/Si								E											51032/Mn									T									
50032/Ty															T																						
50033/VS												E				E			51034/Ms							T	T										
50034/Wm							T							T					51035/Np								ET										
51001/An									R										51036/Pi								T	T									
51002/An												E							51037/PE	ER																	
51003/AB																			51038/PI	TE	TE						TE										
51004/By																E			51039/RI									R									
51005/Bs												E				E			51040/Rs									T				T					
51006/BM													E						51041/Rr												TE				TE		

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
51042/Sy	T			T															52028/Jr														T	T			
51043/SE											TE					TE			52029/KC																E		
51044/St											TE					TE			52030/Ki					E											E		
51045/Sd											T	T				T			52031/Ki					T					T								
51046/Si							T												52032/Ki					T											T		
51047/Wt					E														52033/Ki					E	E					E							
51048/Wt					T														52034/Lr							E									E		
51049/Wt																T			52035/LH	E						E											
51050/Wn	TE				TE					TE									52036/LL		E					E											
51051/Yr										T		T				T			52037/Lo											E					E		
52001/At													T						52038/LL										R	R					R		
52002/Ar	E										E					E			52039/Ln	T						T											
52003/An					T														52040/LI	T							T									T	
52004/An							E												52041/LM	T																	
52005/An	R								R										52042/Mm							T											
52006/An													T						52043/MY							E											
52007/BL		E									E					E			52044/Mi	T							T										
52008/Bh													T						52045/Nt																	E	
52009/Bh													T						52046/NH											TE					TE		
52011/Cn							E												52048/NR																	TE	
52012/Co											TE	TE				TE			52049/NB					TE	TE					TE							
52013/Co											TE	TE				TE			52050/PI							T											
52014/Co											TE	TE				TE			52052/PI							T											
52015/Dn													T						52053/Pn	T							T										
52016/EN																E			52054/Rt											E					E		
52017/EG											E	E				E			52055/RC	R																	
52018/Fi																R			52056/BB								E										
52019/Fy											T						T		52057/Rk													T					
52020/FL							E												52058/Sd											E					E		
52021/GP	E						E												52059/Sk												R				R		
52022/Ht	E							E											52060/St												E				E		
52023/Hs													E						52061/Tn		E									E	E				E		
52024/Hd	R																		52062/Tn											T							
52025/HL										E									52063/UC								T									T	
52026/lh														T					52064/VE								E			E					E		
52027/Jr													T						52065/WL	TE							TE	TE									

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
54035/HL													E						54073/PD																	R	
54036/HL							E	E											54074/RC				T	E	T	E											
54037/HR	R																		54075/Rr																	T	
54038/Hn																TE			54076/Rr	E						E				E					E		
54039/Jr															T				54077/Rs	R						R											
54040/JR															TE				54078/Rs											E				E			
54041/Kn												TE				TE			54079/Ro							T											
54042/KM												TE				TE			54080/RD										R	R					R		
54043/KH							E									E			54081/RD										R	R					R		
54044/LW												E				E			54082/Sy										E	E					E		
54045/LH											E								54083/Sr										E					E			
54046/LI	T						T												54084/Sb											T				T			
54047/LI						T										T			54085/Ss	R							R										
54048/Ly	R																		54086/Si						T	T											
54049/LT												E				E			54087/Tn							T											
54050/Mo											TE	TE				TE			54088/Tn															E	E		
54051/MK				E								E				E			54089/Ui							T											
54052/Ms														T					54090/Uk												E				E		
54053/Ms					T										T				54091/Vn		T									T				T			
54054/Mr					T														54092/Ws		R																
54055/Mo														T			T		54093/Wn		R											R					
54056/MM												TE				TE			54094/Wx								TE										
54057/Mr											TE					TE			54095/Wk										TE	TE				TE			
54058/Mk								T											54096/Yg													T	T				
54059/NC	E							E											54097/Yg								T					T					
54060/Ng						TE	TE												54098/Zs													T					
54061/OV																E			55001/An							T	T										
54062/Oh						T					T					T			55002/An								T	T									
54063/Pk								TE											55003/An									R									
54064/PC								E											55004/By											E				E			
54065/PI	TE					TE													55005/BB											T				T			
54066/PI	TE														TE				55006/BM										E					E			
54067/PI	R							R	R										55007/BM										E					E			
54068/PI								E	E										55008/BC		E								E					E			
54070/PI	TE																		55009/Bn								E							E			
54071/PI	T					T													55010/Bp														T		T		
54072/PD												TE				TE			55011/BR								E			E				E			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
55088/Mn							E												55124/Sg		E																
55089/Cm											E	E				E			55125/Sb							R											
55090/MP	R																		55126/SE										TE					TE			
55091/Ms												TE				TE			55127/SK	T						T											
55092/MM													E						55128/Si							T											
55093/MF														E		E			55129/Tt												R						
55094/MW														TE					55130/To							E											
55095/NA												TE				TE																					
55095a/NT												TE				TE			55132/Ts	TE			TE	TE													
55096/Nh							E												55133/Tg															T	T		
55097/Pl				TE															55134/TN										E				E				
55098/Pl		E					E												55135/TN										R				R				
55099/Pn												E				E			55136/Tr							E											
55100/PS		R		R															55137/Tr	R	R					R	R										
55101/PD											R	R				R			55138/TP	TE							TE										
55102/Ps				TE															55139/TT								E										
55104/Pl	T												T						55140/UK		E					E											
55105/Pl				R															55141/VK									E									
55106/PH		T		T															55142/We												T						
55107/PD												TE				TE			55143/WL	R		R															
55108/PD												TE				TE			55144/Wk									TE	TE					TE			
55109/PD												TE		TE		TE			55145/Wk									TE	TE					TE			
55110/Ro													T						55146/WB												TE						
55111/Ro													T						55147/WW											TE							
55112/Rf												TE				TE			55148/YM														T				
55113/Rt												TE				TE			55149/Yn	T							T										
55114/Rr	T						T						T						56001/An						T	T											
55115/Rs										R									56002/An						T												
55116/Rn	R							R											56003/BM										E					E			
55117/Rr		T																	56004/BM										E					E			
55118/RT		T																	56005/Bh															TE			
55119/RD											E	E				E			56006/BC		E					E				E				E			
55120/Sr				E		E													56007/Br															TE	TE		
55121/Sz		E																	56008/Bv	T																	
55122/Sn		E											E						56009/By								R	R									
55123/Sw		R						R											56010/Bd										T								

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
56011/Bn													E						56047/HR	TE			TE								TE						
56012/CC	E						E	E											56048/HM	E					E												
56013/Ch	TE						TE												56049/HD		T																
56014/Cn				E							E					E			56050/IB	T			T														
56015/Ct							TE												56051/Jn												T						
56016/Cg										TE	TE					TE			56052/KT				E									E					
56017/Cu																T	T		56053/Kr		T	T															
56018/Cu											T					T			56054/Kh					T													
56019/Ch																T			56056/Kv							T											
56020/CW		T																	56057/Kn				TE		TE												
56021/CK			T																56058/Ky	TE			TE														
56022/CC			TE				TE												56059/KB						E												
56023/CL	T			T			T												56060/LT											TE				TE			
56024/CC										T	T					T			56061/L•							T							T	T			
56025/CG										TE	TE					TE			56062/LH				E								E						
56026/CG										E						E			56063/LH	E						E	E										
56027/C•							T	T											56064/L•							E											
56028/C•							T	T											56065/LS							E											
56029/Dh													TE						56066/Ln									TE				TE					
56030/EK								E											56067/Ln				TE														
56031/EP										E	E					E			56068/Ln				TE														
56032/En													TE						56069/LP									E					E				
56033/EK				TE	TE														56070/Li											TE							
56034/FS																	R		56071/Li		E							E				E					
56035/Fn	TE						TE												56072/Ln													E					
56036/Fn											T								56073/Ln				T									T					
56037/FH				TR															56074/Ln												TE						
56038/Gd	TE						TE												56075/Lv												T						
56039/Gt				T							T								56076/Mv									TE				TE					
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56041/Gn										E						E			56078/MS														E				
56042/Gn										E						E			56079/MM														TE	TE			
56043/HH				R															56080/Mi	R					R	R		R	R		R		R				
56044/Ht		E								E									56081/Mi										T					T			
56045/Ht		E																	56082/Mm		T										T						
56046/HN		E																	56083/Mm		T										T						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
56084/Mm			T											T					56120/Rr																	E	
56085/Mk												T				T			56121/RB							E											
56086/Me							E												56122/RK				E		E												
56087/MB				TE												TE			56123/Sv								E									E	
56088/Ms				T															56124/SC	R						R											
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56090/Ms				TE											TE				56127/Sn				E						E						E		
56091/Ms				TE															56128/Sx			E															
56092/Ms				TE															56129/Sr			E															
56093/Ms				T											T				56130/Si												T				T		
56094/Ms				TE	TE														56131/Se												T						
56095/Ms															T				56132/St							T											
56096/MA	E			E															56133/TW				TE	TE													
56097/Nh	E						E												56134/TM									TE	TE					TE			
56098/Nh							E												56135/Ti										T					T			
56099/Pr															T				56136/Tr												T			T	T		
56100/PT										E	E					E			56137/UH													E					
56101/Pn			T				T												56138/Vo								R										
56102/Ps	TE			TE															56139/Vt													T					
56103/Ps				TE															56140/WB	E	E					E											
																			56141/Wm													T					
56105/Pe	E						E												56142/Wk									TE	TE					TE			
56106/PI				R			R												56143/Wn								R										
56107/PM							T												56144/Wy				E						E						E		
56108/PC											TE		TE			TE			56145/Wt								E										
56109/PD											TE					TE			56146/Ym											T			T				
56110/PD												R				R			57001/An									T									
56111/Ro														T					57002/An	TE						TE	TE										
56112/Ro														T					57003/An	R																	
56113/Rd												T			T				57004/An	E									E								
56114/Rr	E			E															57005/An													T					
56115/Rr				T			T												57006/BK				E		E												
56116/Rs	E						E			E									57007/By											E					E		
56117/RE							T												57008/By											E					E		
56118/RM											TE					TE			57009/BB										E						E		
56119/Rr													T						57010/Bn													T					

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
58049/ER	R																		58087/Ih				T														
58050/Es				R						R									58088/Ig	R																	
58051/Er								T											58089/Ii				TE								TE						
58052/FP							TE												58091/Jn				TE														
58053/Fr										E	E					E			58092/JH									TE						TE			
58054/FI																T			58093/Js				E							E							
58055/Fn	R						R	R											58094/JH									E									
58056/FD							E												58095/Jn																TE		
58057/FK	ER	ER		ER			ER												58096/JA							E											
58058/FF							E												58097/Jn																E		
58059/FF	E						E												58098/Kn		E	E															
58060/FL													T						58099/KI												T						
58061/FI							T												58100/Ks												E				E		
58062/Fd													E						58101/Kd				E														
58064/GM														T					58102/Kr											E							
58065/Gn				E		E													58103/Kn														E				
58066/Gn										F						E			58104/KS										R					R			
58067/Gn										F						E			58105/Kg														T				
58068/Gn										E						E			58106/KG	R																	
58069/GN										E						E			58107/Kr		E		E														
58070/Gn													T						58108/KS												TE		TE				
58071/HI		E											E						58109/KI		E																
58072/Hn	E	E		E															58110/Ko							T											
58073/Ho																TE			58111/KN	E						E											
58074/Hn							E												58112/Kn										E								
58075/Hn							E												58113/KV										E								
58076/Hn		E					E												58114/Le	E	E																
58077/HF		E	E																58115/Ls																	T	
58078/Ho													E						58116/LL										E	E				E			
58079/Hd	E																		58117/Ly	TE						TE											
58081/Hm															E				58118/LP																	E	
58082/HS														TE					58119/LH		E																
58083/HR										E									58120/Ld												E				E		
58084/Hs	E						E								E				58121/Lo												E						
58085/HF		E					E												58122/Ln															T			
58086/IT							TE												58122o/Lr															E			

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58123/Lv														T					58162/Py					T													
58124/Lv														T					58163/PL												T						
58125/MT	E																		58164/Ps	T			T		T												
58126/My												E				E			58165/Ps																E		
58127/Mo			E	E	E														58166/Ps																TE		
58128/Mk																T			58167/PC																T		
58129/Mk													TE						58169/Pr					T													
58130/Mo							E	E											58170/Pl															T			
58131/Mo								E											58171/Pl	E						E											
58132/Md			E				E												58172/Pl																T		
58133/MF							T												58173/Pl										T								
58134/Ml															E				58174/Pl				TE														
58135/Mk												T				T			58175/Pl					T													
58137/MM							E						E						58176/Pl	TR			TR	TR		TR							TR				
58138/Mn												E				E			58177/Pl								T										
58139/Ms						T													58178/Pl	R						R	R										
58140/Mr														TE					58179/Pr															T			
58141/MK						E										E			58180/PS					T													
58142/MK								E											58181/Pe											R							
58143/MI												T				T			58182/PS												E	E			E		
58144/Mw			T																58183/PN															T			
58145/Mw			T																58184/Pn					T													
58146/MM								T											58185/Pm												E				E		
58147/Mh				TE												TE			58186/Rr					T													
58149/Mz			E					E											58187/Rr								T										
58150/NA	E				E														58188/Rr								T										
58151/Nh									E										58189/Rr	R																	
58152/Ng								T											58190/Rr								T										
58153/Ng						TE													58191/Rs	T							T										
58154/Or															T				58192/Rs															T			
58155/Or															T				58193/Rs									T									
58156/OW																T			58194/RM					E							E				E		
58157/OS												E	E			E			58195/Rn								TE										
58158/Oi				E												E			58196/Rt						T												
58159/OA						T													58197/RS								T										
58161/Pn								T											58198/Rk														T				

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59106/JT			T																59142/Ld	R							R										
59107/Jn				E															59143/Ld							T											
59108/JR																E			59144/LG							TE											
59109/Jn													R						59145/LK					T													
59110/Jd	R						R												59146/Ln							TE						TE					
59111/Ks	TE						TE												59147/Mi							E											
59112/KK																	T		59148/MC												R						
59113/Kn																	T		59149/Mh												E						
59114/KM					T								T	T					59150/MB											E					E		
59115/Kt			E																59151/Ms											E							
59116/Kr													R						59152/ML											E							
59117/Kn															T				59153/Mo					E				E									
59118/KT					T											T			59154/Md	E																	
59119/Kk	E	E																	59155/MF	TE						TE											
59120/Kg							R												59156/Mr						E	E											
59121/Ky			E				E												59157/Mi		T	T					T										
59122/Kr	E							E											59158/MC									T	T								
59123/Ki					T						T								59159/MS	TE							TE										
59124/Ki					E											E			59160/Mn			E															
59125/KR					E														59161/Mn						E												
59126/Kn										E									59161a/Mn						E												
59127/Ks													TE						59162/Mh							TE											
59128/KB													T			T			59163/Mi	TE							TE										
59129/Kh					T														59164/MM								T	T					T				
59130/LW															T				59165/NG											E	E				E		
59131/LZ			E																59166/NP								TE										
59132/Li					T														59167/Nm						E												
59133/Lr	E																		59168/NG													TE					
59134/LR			E	E											E				59169/NG						E											E	
59135/LW	TE						TE												59170/OH										E								
59136/Ls							T												59171/OA																		
59137/Ln																E			59172/On								E										
59138/Ln																E			59173/Om													E					
59139/Ln																E			59174/Ps														T				
59140/Ld	R																		59175/Ps														T				
59141/LC				E															59176/Ps		T												T				

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59250/WA					TE											TE			60022/BH												E	E				E	
59251/Wn					T														60023/Bn													E			E		
59252/WK			E																60024/BI												E	E				E	
59253/Wr							TE							TE					60025/Bo						E												
59254/Wy	ER																		60026/BG					E		E											
59255/WC												E					E		60027/Bh														T				
59256/Wd							E												60028/BD												E						
59257/WK														E					60029/BB														T				
59258/WS	E						EE												60030/Bo			E									E						
59259/Wh					T														60031/BM												E	E			E		
59261/Wd														T					60032/BI			E		E													
59262/Yg															T				60033/BK													E					
59263/Zv											T	T					T		60034/BA													TR					
59264/ZA			E	E															60035/Cn												TE						
59265/ZO												T					T		60036/CM			E				E											
60001/An														TE			TE		60037/Cy																T		
60002/AG			E							E									60038/Cd					TE		TE											
60003/AH							E												60039/Cg										TE					TE			
60004/AI											E			E					60040/Cv													T					
60005/As															T				60041/Cm			E				E											
60006/As											TE						TE																				
60007/An														TE					60043/C5																T		
60008/An	R																		60044/CT												E						
60009/An	E						E	E											60045/CF					E													
60010/Ah																	T		60046/CE							T	T										
60011/Ah							R												60047/CN			E					E										
60012/Ay																E			60048/CE								E			E							
60013/Br			E								E	E					E		60049/CS								E										
60014/BI			E			E	E												60050/Cs			E									E						
60015/Bz						E											E		60051/CD	E																	
60016/BB															E				60052/CB					E													
60017/Bn						E											E		60053/CC								E										
60018/Bk	TR	TR		TR			TR	TR											60054/CG											TE	TE				TE		
60019/Bx									ER										60055/CD										E								
60020/Br																	T		60056/CP										E					E			
60021/Bn				R															60057/Co	R							R										

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60058/Ch		R					R												60093/Gt	R	R		R					R									
60059/Ds																T			60094/Gx	E						E	E										
60060/Dn													T						60095/Gx	TE						TE											
60061/Dk													T						60096/Go									E			E						
60062/DF	R			R	R		R			R									60097/Gl	R						R											
60063/EW													E						60099/GD								E										
60064/ES							T												60100/Gn											T							
60065/ET													T						60101/Gn															T			
60066/Eo						E					E					E			60102/GT												E			E			
60067/Es																E			60103/HB				TE														
60068/Et		E					E												60104/Ho								E										
60069/FK				TE												TE			60105/Ht	E							E										
60070/FH		E																	60106/Ho																T		
60071/FM							TE						TE						60107/Ho						E				E				E		E		
60072/Fy		E	E																60108/HB									TE				TE			TE		
60073/Fn															T				60109/Ho		E											E					
60074/Fn	R						R	R											60110/HF			R															
60075/FB				R			R			R									60111/HM	E																	
60076/FF							E												60112/Hn	R																	
60077/Fr													TR						60113/Ho												T						
60078/FS	T																		60114/Hd		E										E						
60079/FS													T	T					60115/Hn																T		
60080/Fm													T						60116/HG		E		E						E								
60081/FM															TE				60117/HS					E	E										E		
60082/GM													E			E			60118/HI													E					
60083/Gt													T						60119/HL								E	E									
60084/Gs													TE						60120/Hs								TE										
60085/GH													E						60121/Hs								E										
60086/GB																E			60122/HP																T		
60087/GY															T				60123/HP																TE		
60088/GR				R												R			60124/HC														E				
60089/GR				R												R			60125/HM										F								
60090/GR				TE											TE				60127/IA	E							E										
60091/Gb															T				60128/Id								T										
60092/GB				TE											TE				60129/IO													E					

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
60130/Jn		E			E														60167/Ld		T																
60131/JN		E			E														60168/LC													E					
60132/JJ					TE						TE						TE		60169/Ly																T		
60133/JP					TE						TE						TE		60170/Ln												E						
60134/Js		E																	60171/Ln													T					
60135/Js			T																60172/Ln														T				
60136/Jh	R	R																	60173/Me													T		T			
60137/JI										E									60174/Me													TE		TE			
60138/JH			E								E						E		60175/MT	E						E											
60139/JJ					E														60176/MS		T																
60140/KN																E			60177/Mk				T												T		
60141/KA			E	E															60178/ML														T				
60142/Ks				E												E			60179/MI													T	T				
60143/KS							T												60180/MR												E		E				
60144/KJ											ER						ER		60181/MH												E	E		E			
60145/Kn																	E	E	60182/MH												E	E		E			
60146/Kn																	E	E	60183/MH												T	T		T			
60147/Kn																	E	E	60184/Mn					E													
60148/Kr	R						R	R											60185/Mn			E															
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60150/KI					TR														60187/Md				E										E				
60151/KS					E		E												60188/MS					TE													
60152/KS					E		E												60189/MD					E											E		
60153/KI								E											60190/MH													T					
60154/KT			E													E			60192/Mz			T															
60155/Ko																	T		60193/MT							TE					TE						
60156/KI						T						T							60194/Mn	R	R		R														
60157/Ki						T											T		60195/MN	TE						TE											
60158/LR					T														60196/MG																T		
60159/LT				T													T		60197/MS													E					
60160/LK											E						E		60198/Mw	R			R											R			
60161/Lg														T					60200/MA					E		E											
60162/L•								E	E										60201/Mn						T		T			T							
60163/LL					T														60202/Na								T										
60164/LS														T					60203/NS				E														
60165/LM														E					60204/Ng						R												
60166/L•															T				60205/OA													E					

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